



U.S. Army Corps of Engineers  
Environmental Research & Development  
Environmental Laboratory

## Dredged Material Engineered Soil Product Technology

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### Description of Technology

Engineered soil products have been produced from dredged material and waste materials according to proprietary formulations for Eco-Blocks and flowable fill.

High quality manufactured Eco-Blocks and flowable fill can be used for landscaping walls and planters, walk-through decorative gardens, figurines, statues, parks, highway dividing walls and sound walls, security walls, and buildings.

### Benefits

Dredged material confined placement facilities (CPFs) can be emptied to provide storage capacity required for future waterway dredging.

Dredged material and waste materials will be recycled and converted into beneficial, safe products.

Cost for the blocks and the building of structures will be half the cost of using conventional building blocks. Jobs will be created for unskilled labor to manufacture blocks and build structures.

### Significant Accomplishments

Dredged material from New York/New Jersey Harbor has been tested as manufactured soil products with waste flyash, glass, and additives to produce Eco-Blocks that meet ASTM building specifications. A field demonstration has been proposed at the Port of Elizabeth, NJ.

Dredged material from Mayport Naval Facility's Confined Placement Facility has been successfully tested for Eco-Block manufacture. A demonstration is being planned to establish a pilot manufacturing operation at the field site.

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